

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-23. (Cancelled)

24. (Currently Amended) A marine electrical power generator mounted inside ~~a boat~~ the hull of a boat, the generator comprising

a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;

a permanent magnet alternator with a cup-shaped rotor mounted at one end of the engine drive shaft to produce electricity; and

a transportable frame upon which the engine and alternator are mounted, the platform defining mounting points securing the generator inside the boat hull;

wherein the rotor carries an arrangement of permanent magnets attached to an inner circumferential surface of the rotor;

wherein the generator is mounted below a deck of the boat.

25. (Cancelled)

26. (Original) The generator of claim 24 further comprising an enclosure surrounding the engine and alternator.

27. (Cancelled)

28. (Currently Amended) ~~The generator of claim 24~~ A marine electrical power generator mounted inside the hull of a boat, the generator comprising
a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;
a permanent magnet alternator with a cup-shaped rotor mounted at one end of the engine drive shaft to produce electricity; and
a transportable frame upon which the engine and alternator are mounted, the platform defining mounting points securing the generator inside the boat hull;
wherein the rotor carries an arrangement of permanent magnets attached to an inner circumferential surface of the rotor
wherein weight and position of the magnets are selected to balance firing impulses and radial accelerations of the engine and its rotating components.

29. (Original) The generator of claim 24 wherein the alternator includes a stationary, wound stator responsive to the moving magnetic fields generated by the rotor and packaged within the rotating rotor.

30. (Currently Amended) ~~The generator of claim 24 further comprising~~ A marine electrical power generator mounted inside the hull of a boat, the generator comprising
a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;
a permanent magnet alternator with a cup-shaped rotor mounted at one end of the engine drive shaft to produce electricity; and
a transportable frame upon which the engine and alternator are mounted, the platform defining mounting points securing the generator inside the boat hull;
wherein the rotor carries an arrangement of permanent magnets attached to an inner circumferential surface of the rotor
a seawater pump mounted on another end of the engine drive shaft.

31. (Original) The generator of claim 24 wherein the engine comprises an engine designed for use in a vertical shaft configuration in outboard marine motors.

32. (Currently Amended) ~~The generator of claim 24 having~~ A marine electrical power generator mounted inside the hull of a boat, the generator comprising

a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;

a permanent magnet alternator with a cup-shaped rotor mounted at one end of the engine drive shaft to produce electricity; and

a transportable frame upon which the engine and alternator are mounted, the platform defining mounting points securing the generator inside the boat hull;

wherein the rotor carries an arrangement of permanent magnets attached to an inner circumferential surface of the rotor;

wherein the generator has an overall height of less than about 15 inches.

33. (Original) The generator of claim 24 having an overall height of less than about 12 inches.

34. (Currently Amended) A method of producing electrical power on-board a boat, the method comprising

attaching a crankshaft of an outboard motor engine to an electrical generator with a permanent magnet alternator having a cup-shaped rotor mounted at one end of the engine drive shaft carrying an arrangement of permanent magnets attached to an inner circumference of the alternator;

mounting the engine and generator ~~within a hull~~ below the deck of a boat;

running the engine to produce electrical power; and

directing electrical power from the generator to a remote electrical load ~~to perform useful work.~~

35. (Currently Amended) An on-board marine electric power generator comprising:
a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull of a boat;
an alternator with a vertically oriented rotor coupled for rotation with the engine drive shaft to produce electricity and laterally spaced from the engine shaft; and
a transportable frame upon which the engine and alternator are mounted in side-by-side relation;
wherein the generator is mounted below a deck of the boat.

36. (Previously Presented) The generator of claim 35 wherein the exhaust rise extends to an exhaust outlet disposed on the hull.

37. (Cancelled)

38. (Previously Presented) The generator of claim 35 further comprising an enclosure surrounding the engine and alternator.

39. (Currently Amended) ~~The generator of claim 35~~ An on-board marine electric power generator comprising:
a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;
an alternator with a vertically oriented rotor coupled for rotation with the engine drive shaft to produce electricity and laterally spaced from the engine shaft; and
a transportable frame upon which the engine and alternator are mounted in side-by-side relation;

wherein weight and position of the magnets are selected to balance firing impulses and radial accelerations of the engine and its rotating components.

40. (Previously Presented) The generator of claim 35 wherein the alternator includes a stationary, wound stator responsive to the moving magnetic fields generated by the rotor and packaged within the rotating rotor.

41. (Currently Amended) ~~The generator of claim 35 further comprising~~ An on-board marine electric power generator comprising:

a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;

an alternator with a vertically oriented rotor coupled for rotation with the engine drive shaft to produce electricity and laterally spaced from the engine shaft;

a transportable frame upon which the engine and alternator are mounted in side-by-side relation; and

a seawater pump mounted on another end of the engine drive shaft.

42. (Previously Presented) The generator of claim 35 wherein the engine comprises an engine designed for use in a vertical shaft configuration in outboard marine motors.

43. (Currently Amended) ~~The generator of claim 35 having~~ An on-board marine electric power generator comprising:

a four-stroke, water-cooled engine with a vertically-oriented drive shaft and an exhaust system including an exhaust riser extending to above a water line of the hull;

an alternator with a vertically oriented rotor coupled for rotation with the engine drive shaft to produce electricity and laterally spaced from the engine shaft; and

a transportable frame upon which the engine and alternator are mounted in side-by-side relation;

wherein the generator has an overall height of less than about 15 inches.

44. (Currently Amended) The generator of claim 35 having an overall height of less than about 12 inches.